

ABSTRACT OF THE DISCLOSURE

The disclosed embodiments relate to an apparatus for performing refresh operations. The apparatus comprises a base table having a first set of data entries, a materialized view having a second set of data entries that are associated with the first set of data entries in the base table. Further, a refresh log contains a set of changes that were made to the base table since the materialized view was last refreshed. A module is utilized to perform a refresh operation on the materialized view using the second set of data entries. The module is configured to access the refresh log and the materialized view, calculate delta values from the set of changes in the refresh log and the second set of data entries, apply the delta values to second set of data entries in the materialized view, and provide the delta values to a delta adaptation module for updating a second materialized view.